

**UGC – Human Resource Development Centre
Jawaharlal Nehru University, New Delhi**

**17th Refresher Course in Physical Sciences & Nano Sciences
18th November to 30th December, 2019**

Course coordinator:

Prof. Kedar Singh

School of Physical Sciences, JNU

Email: kedarbhp@rediffmail.com

Dr. Tanuja Mohanty

School of Physical Sciences, JNU

Email: tanujajnu@gmail.com

List of participants

S. No.	NAME	STATE
1	ANITHA. A	TAMIL NADU
2	ASHISH GAUTAM	HIMACHAL PR
3	ASHISH PURUSHOTTAMRAO MAHAJAN	MAHARASHTRA
4	ASNA FURQAN	DELHI
5	BHARAT LAL MEENA	RAJASTHAN
6	BHUPENDRA SINGH	DELHI
7	CHANABASAYYA MARIDEVARMATH	KARNATAKA
8	CHETANA JAIN	DELHI
9	CHIDANAND M KANAMADI	MAHARASHTRA
10	DAYANAND LALASANGI	KARNATAKA
11	DEEPAK KUMAR UPRETI	UTTARAKHAND

12	DINABANDHU DAS	DELHI
13	INDRA SEN RAM	DELHI
14	J. UMA MAHESWARI	TAMIL NADU
15	JAGJIWAN RAM BALAI	DELHI
16	JAI PRAKASH SHARMA	HJHARAKHAND
17	JASMEET SINGH	DELHI
18	KALAVATHY S	TAMIL NADU
19	KANCHAN GEHLOT	RAJASTHAN
20	KOTESWARA RAO PETA	DELHI
21	MEETU BHARTI	HARYANA
22	MONISHA MRIDHA MANDAL	DELHI
23	NARENDER KUMAR	DELHI
24	P. SENTHIL KUMAR	DELHI
25	PARAGJYOTI GOGOI	ASSAM
26	R BALASUBRAMANIAN	TAMIL NADU
27	RAJIB SAIKIA	ASSAM
28	RAVINDRA KUMAR	UTTAR PRADESH
29	SAJI S K	KERALA
30	SANJEEV KUMAR	UTTAR PRADESH
31	SANJIB KUMAR BAGLARI	ASSAM
32	SOMNATH NASKAR	WEST BENGAL
33	SUNIL DONGRE	MAHARASHTRA
34	SURENDER DUHAN	HARYANA
35	SURIAKALA P	TAMIL NADU
36	UMA SANKARESWARI. T	TAMIL NADU
37	VIJAY VITTHALRAO WARHATE	MAHARASHTRA
38	KHALID SULTAN	JAMMU & KASHMIR

Schedule

Week - I

DATE	9:15 am-10.15 am	Tea Break 10.15 am - 10.35 am		11.00 am - 12.30 pm	01.00 pm - 02.00 pm	2:30 pm - 03.30 pm	03.30 pm - 03.45 pm	03.45 pm - 05.00 pm	
Monday, November 18, 2019	Registration UGC-HRDC, JNU	Tea Break		Combined Inaugural Session at Convention Centre, Lecture Hall - 2, JNU	Lunch UGC-HRDC, JNU	Prof. H.B. Bohidar <i>"Introduction to Nanoscience"</i>	Tea Break	Interaction with the Course Coordinators	
DATE	09.00 am - 09.30 am	09.30 am - 11.00 am	11.00 am - 11.30 am	11:30 am-01.00 pm	01.00 pm-02.00 pm	2:00 pm - 03.30 pm	3.30 pm – 3.45 pm	3:45 pm-5:15 pm	05.15 pm-5:45 pm
Tuesday, November 19, 2019	Review & Reflection	Prof. Sanjay Puri <i>"Kinetics of Phase Transitions"</i>	Tea Break	Prof. Satyabrata Patnaik <i>"Superconductivity and Magneto-resistance in topological systems"</i>	Lunch Break	Prof. M. Husain <i>"Applications of CNTs"</i>	Tea Break	Dr. Sobhan Sen <i>"Molecular Spectroscopy in Everyday Life"</i>	Experiential Learning
Wednesday, November 20, 2019	Review & Reflection	Prof. Rajendra Singh <i>"GaN nanowires for Nanoscale optoelectronic devices"</i>		Prof. Subhasis Ghosh <i>"Physics of Low Dimensional Systems"</i>		Dr. Rabindra Nath Mahato <i>"Structural, Magnetic, Magnetocaloric and magneto-dielectric properties of nanocrystalline perovskite oxides"</i>		Dr. Ashim Kumar Pramanik <i>"Transition Metal Oxides - An Overview"</i>	Experiential Learning
Thursday, November 21, 2019	Review & Reflection	Prof. H.B. Bohidar <i>"Biophysics"</i>		Prof. Pankaj Sharan <i>"Variational Principles in Physics"</i>		Dr. Poonam Mehta <i>"Big world of small neutrinos"</i>		Prof. Debashis Ghoshal <i>"Avatars of the travelling front"</i>	Experiential Learning
Friday, November 22, 2019	Review & Reflection	Dr. Manoj Munde <i>"Biophysical Tools in Drug Discovery"</i>		Prof. Brijesh Kumar <i>"Correlation and Frustration in Condensed Matter"</i>		Dr. Vinod Singh <i>"Gas phase synthesis of the nanoparticles"</i>		Dr. Balaji Biradar <i>"Nanoscale characterization using Electron Microscopy"</i>	Experiential Learning
Saturday November 23, 2019		Library & Project Preparation				Library & Project Preparation			Library & Project Preparation

Week - II

DATE	09.00 am - 09.30 am	09.30 am - 11.00 am	11.00 am – 11.30 am	11:30 am-01.00 pm	01.00 pm- 02.00 pm	2.00 pm - 3.30pm	3.30 pm – 3.45 pm	3:45 pm-5:15 pm	05.15 pm- 5:45 pm
Monday, November 25, 2019	Review & Reflection	Prof. Dinesh Mohan <i>“A Sustainable Solution to Stubble Burning, Soil Fertility, Food Security, and Climate Change Mitigation”</i>	Tea Break	Prof. Ashok Kumar Rastogi <i>“How and Why cool a solid to very low temperatures”</i>	GROUP PHOTO AT 01.00 pm	Dr. Satyendra Singh <i>“Growth of Porous Anodic Aluminum Oxide for Controlled Synthesis of Nanostructures”</i>	Tea Break	Prof. P.D. Sahare <i>“Luminescence techniques for monitoring of high energy radiations”</i>	Experiential Learning
Tuesday, November 26, 2019	Review & Reflection	Dr. Ratneshwer <i>“Internet of things”</i>		Prof. V.K. Tripathi <i>“Plasma”</i>		Dr. Jyoti Rajput <i>Molecular “Physics”</i>		Dr. Rajendra S Dhaka <i>“Photoelectron Spectroscopy: tools for materials physics and chemistry”</i>	Experiential Learning
Wednesday, November 27, 2019	Review & Reflection	Dr. Pawan Kumar Kuleriya <i>Applications of particle accelerators in condensed matter</i>		Dr. R.K. Kotnala	Lunch Break	Prof. S.K. Sarakar		Dr. Hari Om Yadav	Experiential Learning
Thursday, November 28, 2019	Review & Reflection	Prof. J. P. Singh <i>“Sculptured thin films fabricated by glancing angle deposition and their applications”</i>		<i>School of Physical/Special Centre for Nano Science, JNU Visit</i>		<i>AIRF, JNU Visit</i>		<i>MCQ</i>	Experiential Learning
Friday, November 29, 2019	Review & Reflection	Evaluation		Evaluation		Evaluation			Experiential Learning
Saturday, November 30, 2019	Review & Reflection	Feedback Session			<i>Valedictory Session</i>				Experiential Learning

